WHAT IS CLAIMED IS:

1		1.	A method for stylizing video, comprising:
2		perfor	ming a spatio-temporal segmentation analysis on the video to identify
3	three dimensional volumes of contiguous pixels having a similar characteristic;		
4		receiv	ring an input identifying a group of the three dimensional volumes;
5	and		
6		identi	fying the group of three dimensional volumes as a single semantic
7	region.		
8		2.	The method of claim 1, wherein the similar characteristic comprises
9	color.		
10		3.	The method of claim 1, wherein the spatio-temporal segmentation
11	analysis comprises an anisotropic kernel mean shift segmentation procedure.		
12		4.	The method of claim 1, wherein the input comprises an interactive
13	user input.		
14		5.	The method of claim 1, wherein the three dimensional volumes of
15	contiguous pixels comprise segments.		
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16		6.	The method of claim 5, wherein the user input comprises outlining a
17	plurality of segments.		

- 7. The method of claim 6, wherein the outlining is performed on a number of keyframes of the video, the number of keyframes being fewer than a total number of frames of the video.
- 8. The method of claim 7, wherein additional segments on frames of the video other than keyframes are identified by determining a relationship of the additional segments to the segments outlined on the keyframes.
- 9. The method of claim 8, wherein the relationship comprises at least a portion of the additional segments being enclosed by one or more of the segments outlined on the keyframes.
- 27 10. The method of claim 9, wherein the at least a portion comprises at least a majority of pixels of the additional segments.
- The method of claim 1, further comprising applying a stylization to the single semantic region.
- The method of claim 11, wherein the stylization comprises a mean shift technique.

- 13. A computer-readable medium having computer-executable instructions for stylizing video, the instructions comprising:
- performing a spatio-temporal segmentation analysis on the video to identify three dimensional volumes of contiguous pixels having a similar characteristic;
- receiving an input identifying a group of the three dimensional volumes;
- 38 and
- identifying the group of three dimensional volumes as a single semantic
- 40 region.
- 14. The computer-readable medium of claim 13, wherein the instructions further comprise deriving a set of edge sheets that represent the surface of the single semantic region and associating the edge sheets with the semantic region.
- 15. The computer-readable medium of claim 14, further comprising rendering the edge sheets as a curve between the semantic region and another portion of the video.
- The computer-readable medium of claim 14, wherein a thickness of the edge sheets is determined based on criteria associated with the single semantic region.
- The computer-readable medium of claim 16, wherein the criteria comprises a position of the edge sheet relative to an arclength of the edge sheet.

- 18. The computer-readable medium of claim 16, wherein the criteria comprises a duration of existence of the semantic region in the video.
- 19. The computer-readable medium of claim 16, wherein the criteria comprises a movement of the semantic region in the video.

- 55 20. A computer-readable medium having computer-executable instructions for stylizing video, the instructions comprising:
- determining a set of volumetric objects by mean shift video segmentation, each volumetric object being a segment;
- indicating on a limited number of keyframes how segments should be merged into a semantic region; and
- interpolating the indications between keyframes by a mean shift constrained interpolation technique to propagate the indication to frames between keyframes.
- 21. The computer-readable medium of claim 20, further comprising drawing paint strokes within the semantic region at keyframes.
- 66 22. The computer-readable medium of claim 21, wherein the paint strokes are similarly interpolated.
- The computer-readable medium of claim 20, wherein a surface of the semantic region is smoothed.
- 70 24. The computer-readable medium of claim 20, wherein an edge sheet 71 is determined that corresponds to a surface of the semantic region.
- 72 25. The computer-readable medium of claim 20, wherein a stroke sheet 73 is determined that corresponds to a surface lying within the semantic region